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to some ignorant but unprincipled man, reckless reflect. A soap bubble is a thin shell of water cesses, prove that the materials of which bodies of character from being unacquainted with its and is observed to reflect different colours from are formed are susceptible of minuteness which value, who had been hired to make out a case different parts of its surface. Immediately infinitely exceeds the powers of sensible obseragainst me, because my reports were considered before the bubble bursts, a black spot may be vation, even when those powers have been exto militate against the dogmas of his principles : but my feeling has been one of unmitigated thickness has been proved not to exceed the contempt, since I find it universally attributed 2,500,000th of an inch." to one individual—an individual so identified with sordid mendacity, as to render either victory or defeat in any contest with him, equally discreditable. But were this consideration not all-powerful, in my humble opinion no advantage can accrue from the most perfect animals is not, as it seems, an uniformly red possibly be lost in the immensity of creation, exposure that can be made; since it is hopeless liquid. It consists of small red globules, float-discovered to them by the former instrument, to expect to convince those who give credence ing in a transparent fluid called serum. In by shewing with the latter, the exquisite orgato such an oracle, and it is no less hopeless to different species these globules differ both in nization, and therefore the fostering care of the look for the conversion of a skulking libeller, in man and all Deity, even in inconceivably minute portions of whose self-gratulations, amid profound conaminals which suckle their young, they are matter. Of the force and truth of this retempt, prove his superiority to all sense of perfectly round or spherical. In birds and mark we think the foregoing extract a striking shame .

Populus me sibilat, at mihi plaudo Ipse domi.

Refutation on refutation would be perfectly unavailing, for

You break his web of sophistry in vain : The creature's at his dirty work again.

" To those who take any interest in the truth, a careful reading of my reports and of these volumes, will furnish my best vindication from the charge of interested misrepresentation. My statements may be faulty; but I give them as the best I could command. My inferences may be wrong; but until their logical inaccuracy be made evident, I must consider them valid, for they were not hastily nor rashly de-

'Coarse,' dishonest,' skulking libeller,' are ugly epithets: they are intended, we understand, for Mr. Zachary Macauley; but we wash our hands of this dirty business, and shall proceed to tell our readers what Mr. Mackenzie said and heard, and thought in Haiti during his abode there, the first time we can find space and opportunity.

The Cabinet Cyclopædia, Vol. 5, Mechanics. By Captain H. Kater, V. P. R. S. and Dr. Lardner.-London, Longman, Rees, Orme, Brown and Green.

THE present volume contains a complete system of an important and popular branch of natural philosophy, divested, as much as possible, of those scientific technicalities which can be understood so as to be deprived of all food, their condition only by the regular student. Though the becomes reduced; they regain their spirit and name of Captain Kater is put foremost in the activity, and amuse themselves in the pursuit title page, he contributes one chapter only to of the more minute animals, which are supthe work, and that the last: it is, however, a plied to them; they swallow these without very valuable one, and comprises nearly one depriving them of life, for, by the aid of the fifth of the volume; it treats of balances and microscope, the one has been observed moving pendulums, the instruments on which the mea surement of weight and time depends. The whole of the preceding chapters are written by Dr. Lardner, and reflect great credit on his skill in conveying scientific knowledge in Must we not conclude that these creatures what is called popular language, that is to say, have heart, arteries, veins, muscles, sinews, not in mathematical language; though still tendons, nerves, circulating fluids, and all the there are too many A. B's and C. D's in it, concomitant apparatus of a living organised and too many references to plates and figures, to allow the book to be considered light summer reading by the ladies. We select a brief passage from the chapter on the properties of matter, as a specimen of the manner in tude, what powers of calculation can give an which important information is conveyed:

" Newton succeeded in determining the substances by observing the colours which they or developed by mechanical and chemical pro- and Ireland.

observed near the top. At this part the tended by all the aids of science."

" The organised world offers still more remarkable examples of the inconceivable sub-

fishes they are of an oblong spheroidal form illustration. In the human species, the diameter of the globules is about the 4000th of an inch. Hence it follows, that in a drop of blood which would remain suspended from the point of a fine needle, there must be about a million of globules.

" Small as these globules are, the animal kingdom presents beings whose whole bodies are still more minute. Animalcules have been discovered, whose magnitude is such, that a and muscles of strength and flexibility. They accomplished by industry and perseveranceas in our own species. Spallanzani observes, and sluggish by over-feeding. After a meal of Dr. Macartney's Cabinet; this alone were a this kind, if they be confined in distilled water, high recommendation. that certain animalcules devour others so vorawithin the body of the other. These singular appearances are not matters of idle and curious observation. They lead us to enquire what parts are necessary to produce such results. body? And if so, how inconceivably minute must those parts be ! If a globule of their blood bears the same proportion to their whole bulk as a globule of our blood bears to our magni-

adequate notion of its minuteness. "These and many other phenomena ob-

We remember a striking passage somewhere in Dr. Chalmer's Astronomical discourses, in which he adverts to the invention of the microscope almost immediately after that of the telescope, as if it had been intended by Provitilty of matter.

"The blood which flows in the veins of deeming that an individual human being might dence to preserve mankind from the danger of

NOTICES OF BOOKS.

An Account of the Varieties in the Arterial System of the Human Body. By P. H. Green, A.B., M.B. Trinity College, Dublin; illustrated by Plates. 8vo. pp. 48 .-Dublin, Leckie.

million of them does not exceed the bulk of a Considered, with reference to the Wolfian degrain of sand; and yet each of these creatures finition of beauty---"unity and variety"-what is composed of members as curiously organised can be more beautiful than the human frame, as those of the largest species; they have life in the structure of which nature seems to work and spontaneous motion, and are endued with in her wildest and most varied mood-yet with sense and instinct. In the liquids in which perfect uniformity of purpose? Dr. Green's they live, they are observed to move with manual of the varieties of arteries is a very astonishing speed and activity; nor are their interesting and valuable contribution to the motions blind and fortuitous, but evidently advancement of Operative Surgery. The plates governed by choice, and directed to an end. are supplementary to those of Ticdernan, as They use food and drink, from which they published by Dr. Knox; but the book itself is, derive nutrition, and are therefore furnished we think, the best book of reference for the with a digestive apparatus. They have great illustration of the whole series. It is in works muscular power, and are furnished with limbs of this description—works which can only be are susceptible of the same appetites, and ob- that the Germans surpass us, as they do all noxious to the same passions, the gratification other European nations; but we trust that the of which is attended with the same results present publication gives sufficient earnest of what may yet be done in our own school. We

> A New and Comprehensive Topographical Dictionary. By John Gorton. Forty-eight 4to. Maps.-London, Chapman and Hall.

This work is publishing in monthly Parts. under the conduct of the well-known Editor of the 'Biographical Dictionary'-the best abridgment of the kind we are acquainted with. It is to be completed in 42 Nos. four of which have already appeared, and do great credit to the industry and care of the compiler. Not merely the general features of every town and parish are described, but its situation, population, distance from next post town, from the metropolis; and many other interesting particulars are given, with great minuteness and accuracy.

The maps are well and clearly engraved, by Sidney Hall; and altogether the work is very neatly and creditably, as well as cheaply, executed. We should mention that the topograthickness of very thin laminæ of transparent served in the immediate productions of nature, phical description extends only to Great Britain